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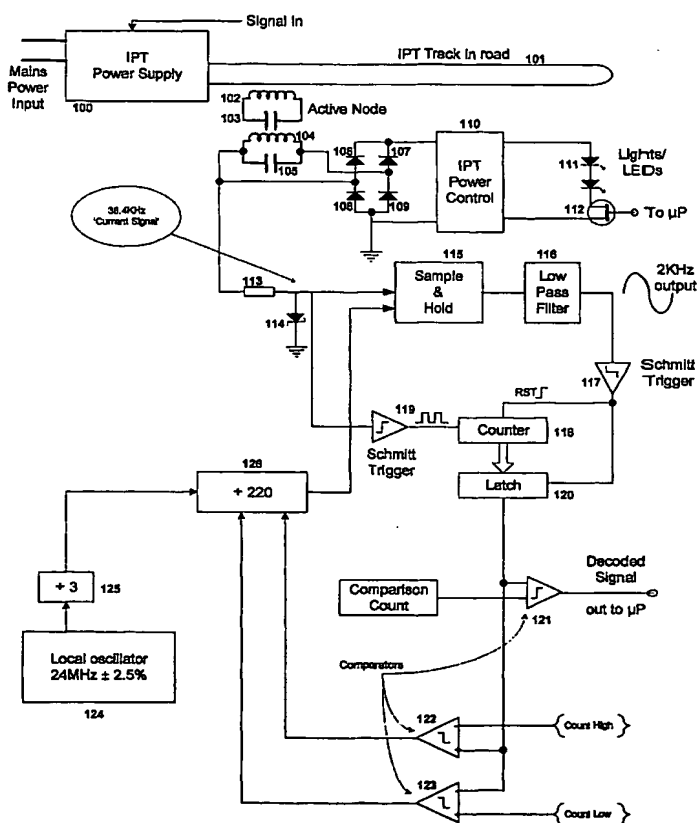
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528542 29 September 2003 (29.09.2003) NZ</p> <p>(71) Applicant (for all designated States except US): AUCK-
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(54) Title: INDUCTIVELY POWERED POWER TRANSFER SYSTEM WITH ONE OR MORE INDEPENDENTLY CONTROLLABLE LOADS



(57) Abstract: The invention provides control of one or more operating units in an inductive power transfer (IPT) system. Each operating unit includes a pick-up coil (104) that takes power from a primary conductor or track (101) over an air gap. The operating unit is controlled by frequency modulating the primary conductor power supply (100) to send a control instruction which is decoded by the operating unit. The instruction is decoded by generating signal using a local oscillator (124) in the operating unit and using this signal to detect changes in the frequency of the current in the primary conductor (101). Applications include the control of inductively powered road-studs that include a light source (111), for independent control, for example controlling traffic on a roadway. A narrow band modulated data transmission system and method controlling of an operating unit are also provided.



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